

AMENDMENTS

In the Claims:

1. (Currently Amended) ~~An unitized~~ single, self-contained, replaceable solid oxide fuel cell, comprising:

a planar first interconnect that allows a first gas to flow therein;

a planar ceramic cell adjacent said first interconnect;

a planar second interconnect adjacent said ceramic cell, said second interconnect allows a second gas to flow therein;

a plurality of gas tubes in gas communication with said ceramic cell, said gas tubes comprising:

a first gas inlet affixed to said first interconnect;

a second gas inlet affixed to said second interconnect;

a first gas outlet in communication with said first gas inlet; and

a second gas outlet in communication with said second gas inlet.

2. (Currently Amended) ~~The unitized~~ single, self-contained, replaceable fuel cell of claim 1, wherein at least one of said first and second gas outlets comprise a tube affixed to at least one of said first and second interconnects.

3. (Currently Amended) ~~The unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein at least one of said first and second gas outlets comprise a plurality of openings in at least one of said first and second interconnects.

4. (Currently Amended) ~~The unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said first and second gas inlets have cylindrical shapes.

5. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable cell of Claim 1, wherein said first gas inlet is affixed adjacent an intersection of two sides of said first interconnect and said second gas inlet is affixed adjacent an intersection of two sides of said second interconnect.

6. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said first gas inlet is affixed at a middle area of a side of said first interconnect and said second gas inlet is affixed at a middle area of a side of said second interconnect.

7. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said first gas inlet is disposed substantially parallel to said second gas inlet.

8. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said first gas inlet is disposed substantially perpendicular to said second gas inlet.

9. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said plurality of tubes have a straight shape.

10. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 1, wherein said plurality of gas tubes have a T-shape.

11. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 10, wherein said plurality of gas tubes have a cross member portion and an inlet portion.

12. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable cell of Claim 11, wherein said cross member portion is disposed within at least one of said first and second interconnects, and said cross member portion is disposed immediately adjacent said inlet portion.

13. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable cell of Claim 12, wherein said gas tubes have a stubbed T-shape.

14. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable cell of Claim 11, wherein the cross member portion is disposed within at least one of said first and second interconnects, and said cross member portion is disposed away from said inlet portion.

15. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 14, wherein said gas tubes have an extended T-shape.

16. (Currently Amended) An ~~unitized~~ single, self-contained, replaceable solid oxide fuel cell, comprising:

- a planar first interconnect that allows a fuel to flow therein;

- a planar ceramic cell adjacent said first interconnect;

- a planar second interconnect adjacent said ceramic cell, said second interconnect allows an oxidant to flow therein;

- a plurality of gas tubes in gas communication with said ceramic cell, said gas tubes comprising:

- a fuel inlet affixed to said first interconnect;

- an oxidant inlet affixed to said second interconnect;

- a fuel outlet affixed to said first interconnect; and

- an oxidant outlet affixed to said second interconnect.

17. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 16, wherein said first interconnect includes a first side, a second side, a third side, and a fourth side.

18. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 17, wherein said second interconnect includes a first side, a second side, a third side, and a fourth side.

19. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 18, wherein:

said first side of first interconnect is adjacent said first side of said second interconnect and on opposite sides of said cell; and

said second side of said first interconnect is adjacent said second side of second interconnect and on opposite sides of said cell.

20. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 19, wherein:

said fuel inlet is secured in said first side of said first interconnect;

said fuel outlet is secured in said second side of said first interconnect;

said oxidant inlet is secured in said second side of said second interconnect;

and

said oxidant outlet is secured in said first side of said second interconnect.

21. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 20, wherein the fuel and oxidant flow in a co-flow pattern.

22. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 19, wherein:

said fuel inlet is secured in said first side of said first interconnect;
said fuel outlet is secured in said first side of said first interconnect;
said oxidant inlet is secured in said first side of said second interconnect; and
said oxidant outlet is secured in said first side of said second interconnect.

23. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 22, wherein the fuel and oxidant flow in a co-flow pattern.

24. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 19, wherein:

said third side of first interconnect is adjacent said third side of said second interconnect and on opposite sides of said cell; and

said fourth side of said first interconnect is adjacent said fourth side of second interconnect and on opposite sides of cell.

25. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 24, wherein:

said fuel inlet is secured in said first side of said first interconnect;
said fuel outlet is secured in said second side of said first interconnect;
said oxidant inlet is secured in said third side of said second interconnect; and
said oxidant outlet is secured in said fourth side of said second interconnect.

26. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 25, wherein the fuel and oxidant flow in a cross flow pattern.

27. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 24, wherein:

said fuel inlet is secured in said first side of said first interconnect;

said fuel outlet is secured in said third side of said first interconnect;

said oxidant inlet is secured in said second side of said second interconnect;

and

said oxidant outlet is secured in said third side of said second interconnect.

28. (Currently Amended) The ~~unitized~~ single, self-contained, replaceable fuel cell of Claim 27, wherein the fuel and oxidant flow in a co-flow pattern.